



Feeding the Fleet

GreenGov
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Introduction



- **AFV Strategy**
- **GSA EV Pilot**
- **EV Charging Infrastructure**
- **Biodiesel**
- **E85**
- **Car Share Project**
- **Heavy Hybrid project**



Source: Microsoft Clip Art

AFV Strategy



•Our Goals

- Petroleum Reduction 2% per year (2005 baseline)
- Petroleum Reduction 50% by 2015 (2009 baseline) **DoN only**
- Alternative Fuel Use Increase 10% per year
- 100% of new procurements AFVs by 2015

•Our Plan

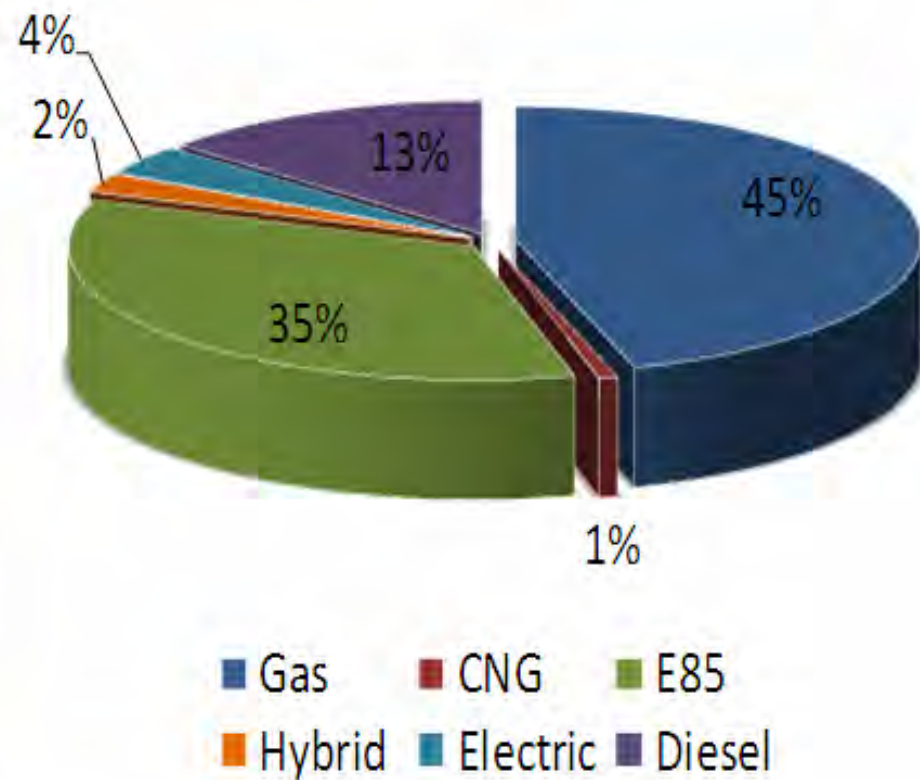
- Minimize petroleum use through right sizing and more efficient vehicles
- Increase use of a variety of alternative fuels when and where they make sense (“Feed the Fleet” with alternative fuels!)

Source: Microsoft Clip Art

Fleet Composition



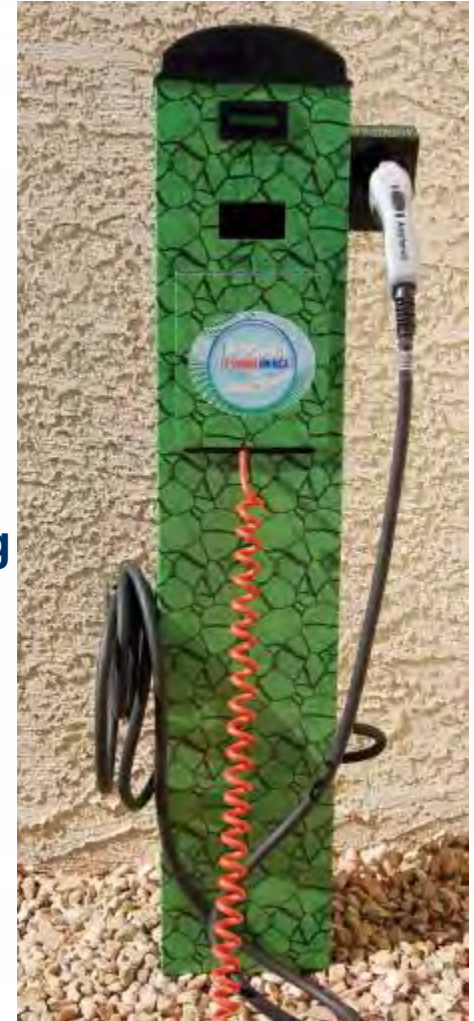
Fuel Type	Number of Vehicles
CNG	287
E-85	13,506
Electric (low speed electric vehicles)	1,440
Hybrid	886
Total AFVs	16,119
Gasoline	17,636
Diesel	5,210
Total NTV's	38,965



EV Charging Stations



- **Working on Navy minimum requirements**
- **Current project in Northwest Region**
 - 26 Level I/II stations should be installed end of CY2011
- **GSA Pilot project for Southwest and Washington DC areas**
 - 9 Chevy Volts and 2 Nissan Leafs
 - 10 Level I/II stations should be installed beginning of CY 2012



Source: EV Charge America

E85/B20



- **Currently have E85 in the Midwest, Northwest, Norfolk, Pensacola, FL, Washington DC**
- **Pearl Harbor E85 station status**
 - **First Fuel delivery on July 6th**
 - **Completion is contingent on Fuel Master Integration**
- **Approximately 5 E85/B20 stations planned for FY 12**



E85 Station at Pearl Harbor

Car Share Project



- NAVSTA Norfolk demo completed in FY10
- NAVFAC Midwest completed pilot demo early FY 11
 - Expanding to additional sites as a transportation efficiency measure
- NAVFAC Northwest completed pilot demo of key manager technology only
- NAVFAC Southwest/GSA ZipCar Pilot



Picture of Key Manager

Heavy Hybrids



- **Completed track testing at Aberdeen Proving Grounds**
 - Found limited to moderate fuel efficiency gains for drive cycle modes (up to 25%) highly dependent on drive cycle
 - Found substantial fuel efficiency benefits (75%) for engine off work mode for bucket truck
- **Initiated Site testing at NBK Bangor and NAVSTA San Diego**



Conclusion & Questions



- The Navy is “Feeding the Fleet” with:
 - Continued Purchase of AFVs
 - Alternative Fuel Use
 - Alternative Fuel Infrastructure Projects

• ANY QUESTIONS?

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Source: Microsoft Clip Art